## **EAST Search History**

## EAST Search History (Prior Art)

| Ref# | Hits   | Search Query   | DBs  | Default<br>Operator | Plurals | Time Stamp          |
|------|--------|--|--|---------------------|---------|---------------------|
|      | 66     | ("4123316"   "4261762"   "4350578"   "4427516"   "4427762"   "4430547"   "4457359"   "4512391"   "44568601"   "4711698"   "4768610"   "4786352"   "4786359"   "4793897"   "4807016"   "4810385"   "4807016"   "4810385"   "4807016"   "4810385"   "4918031"   "4948458"   "4990229"   "5015330"   "5006220"   "5015330"   "5074456"   "50857277"   "5169487"   "5180226"   "5241245"   "5249251"   "5258824"   "5276693"   "5247751"   "5326404"   "5346578"   "5349237"   "5392018"   "539237"   "5401350"   "5414246"   "5429345"   "55279577"   "5514246"   "5529657"   "5556601"   "5830277"   PN. OR ("6218312"). | US-PGPUB;<br>USPAT; USOCR                          | OR                  | ON      | 2010/03/24<br>08:47 |
| _12  | 10     | "6133152"  | US-PGPUB;<br>USPAT; USOCR                          | OR                  | ON      | 2010/03/24<br>09:02 |
| _14  | 338236 | (chamber liner wall) with (cool\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR                  | ON      | 2010/03/24<br>09:13 |
| L15  | 2531   | (chamber liner wall) with (cool\$3) and (rtp rapid adj thermal)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR                  | ON      | 2010/03/24<br>09:13 |
| L16  | 2449   | (chamber liner wall) with (cool\$3) and (rtp rapid adj thermal)  | US-PGPUB;<br>USPAT; USOCR                          | OR                  | ON      | 2010/03/24<br>09:14 |
| _17  | 3      | (chamber liner wall) with (cool\$3) and (rtp rapid adj thermal)  | JPO  | OR                  | ON      | 2010/03/24<br>09:14 |
| _18  | 487    | ("118" "156").clas. and 16   | US-PGPUB;<br>USPAT; USOCR                          | OR                  | ON      | 2010/03/24<br>09:14 |
| L19  | 89     | (liner) with (cool\$3) and (rtp rapid adj thermal)   | US-PGPUB;<br>USPAT; USOCR                          | OR                  | ON      | 2010/03/24<br>09:14 |

| L20 | 181 | (jacket) with (cool\$3) and<br>(rtp rapid adj thermal)  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:16 |
|-----|-----|---|--|------|----|---------------------|
| L21 | 33  | ("118" "156").clas. and 20  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:16 |
| L22 | 33  | ("3945864"   "5403434"  <br>"5968279"   "6008128"  <br>"6107197"   "6171965"  <br>"6391796").PN. OR<br>("6562720").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:19 |
| L23 | 11  | ("4503807"   "4736705"  <br>"4792378").PN. OR<br>("5405444").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:26 |
| L24 | 596 | (chamber liner wall) with<br>(cool\$3) with water and<br>(rtp rapid adj thermal)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR   | ON | 2010/03/24<br>09:30 |
| L25 | 158 | ("118" "156").clas. and 24  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:30 |
| L26 | 11  | ("4503807"   "4736705"  <br>"4792378").PN. OR<br>("5405444").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>09:40 |
| L27 | 44  | ("5710407").URPN.   | USPAT  | OR   | ON | 2010/03/24<br>10:19 |
| L28 | 13  | ("4738618"   "4925388"  <br>"5000682"   "5590996"  <br>"5820366"   "5846073"  <br>"5904478"   "5908292"  <br>"5947718"   "5994675"  <br>"6164963"   "6191388"  <br>"6879779").PN. OR<br>("7371998").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR   | ÓN | 2010/03/24<br>10:27 |
| L29 | 4   | "6143079" and gate adj<br>valve   | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2010/03/24<br>10:55 |
| S1  | 1   | "7022948"   | US-PGPUB;<br>USPAT; USOCR                          | OR   | ON | 2009/09/25<br>14:28 |
| \$2 | 194 | ("20010000866"   "20010009140"   "200100011526"   "20010011526"   "20010013312"   "20010014371"   "20010034123"   "20010034123"   "20010041250"   "20010042523"   "20010042799"   "200200007790"   "2002000196"   "20020007790"   "20020041931"   "20020086106"   "20020092471"   "20020094689" | US-PGPUB;<br>USPAT; USOOR                          | OR . | ON | 2009/09/25<br>14:28 |

|            | 70"         | : ; | 3 1                                     |  |
|------------|-------------|-----|---|--|
| "20020108  |             |     |   |  |
| "200201343 | 307"        |     |   |  |
| "200300047 | 723"        |     |   |  |
| "20030075  | 73" i       |     |   |  |
| *200300759 |             |     |   |  |
|            |             |     |   |  |
|            | "4058430"   |     |   |  |
| "4389973"  | "4413022"   |     |   |  |
| "4486487"  | "4767494"   |     |   |  |
| "4806321"  | "4813846" i |     |   |  |
| "4829022"  | "4834831"   |     |   |  |
| "4838983"  |             |     |   |  |
|            | "4838993"   |     |   |  |
| "4840921"  |             |     |   |  |
| "4859625"  | "4859627"   |     |   |  |
| "4861417"  | "4876218"   |     |   |  |
| "4917556"  | "4927670" i |     |   |  |
| "4931132"  |             |     |   |  |
|            |             |     |   |  |
| "4960720"  | "4975252"   |     |   |  |
| *4993357"  | "5000113"   |     |   |  |
| "5013683"  | "5028565"   |     |   |  |
| "5082798"  | "5085885" i |     |   |  |
| "5091320"  | "5130269"   |     |   |  |
| "5166092"  | "5173474"   |     |   |  |
|            |             |     |   |  |
| "5186718"  | "5205077"   |     |   |  |
| "5225366"  |             |     |   |  |
| "5246536"  | "5250148"   |     |   |  |
| "5254207"  | "5256244"   |     |   |  |
| "5259881"  | "5270247"   |     |   |  |
| "5278435"  | "5281274"   |     |   |  |
| "5286296"  | "5290748"   |     |   |  |
|            |             |     |   |  |
| "5294286"  | "5296403"   |     |   |  |
| "5300186"  | "5311055"   |     |   |  |
| "5316615"  | "5316793"   |     |   |  |
| "5330610"  | "5336324"   |     |   |  |
| "5338389"  | "5348911"   |     |   |  |
| "5369361"  | "5374570"   |     |   |  |
|            |             |     |   |  |
| "5395791"  | "5438952"   |     |   |  |
| "5439876"  | "5441703"   |     |   |  |
| "5443033"  | "5443647"   |     |   |  |
| "5455072"  | "5458084"   |     |   |  |
| "5469806"  | "5480818" i |     |   |  |
| "5483919"  | "5484664"   | 1   |   |  |
| "5503875"  | "5521126"   |     |   |  |
|            |             |     | *************************************** |  |
| "5527733"  | "5532511"   |     |   |  |
| "5540783"  |             |     | 1                                       |  |
| "5567152"  | "5580380"   |     |   |  |
| "5601651"  | "5607009" i |     |   |  |
| "5609689"  | "5616181"   |     |   |  |
| "5637530"  |             |     |   |  |
|            |             | -   | *************************************** |  |
| "5644128"  | "5667592"   |     |   |  |
| "5674786"  | 0000.00     |     |   |  |
| "5695564"  | "5705224"   |     | -                                       |  |
| "5707880"  | "5711811"). |     |   |  |
| PN. OR ("5 |             |     |   |  |
|            |             |     |   |  |
|            | "5747113"   |     |   |  |
|            | "5788447"   |     |   |  |
| "5788799"  |             |     | -                                       |  |
| "5801634"  | "5807792"   |     |   |  |
|            | "5835677"   | 1   |   |  |

| S3  | 697 | "5850071"   "5851849"   "5855675"   \$855680"   "5856572"   "5856680"   "5866213"   "5866795"   "5862413"   "5866795"   "5882413"   "5904565"   "5816365"   "5923056"   "5923985"   "5925574"   "5923985"   "5925574"   "5923889"   "5942040"   "5947710"   "5972430"   "5947710"   "5972430"   "6001669"   "6015590"   "6026527"   "6036773"   "6046439"   "6015266"   "60426278"   "6034777"   "6046439"   "6051286"   "6062798"   "601808"   "6046302"   "608677"   "6110566"   "601808"   "6140237"   "613977"   "6117244"   "613970"   "6147334"   "6140238"   "6140237"   "6144060"   "6147334"   "6151447"   "6174809"   "6183563"   "6200893"   "6203613"   "6206967"   "6207302"   "6231672"   "6248065"   "6231672"   "6271802"   "635144"   "6306216"   "635314"   "6306216"   "631638"   "6447607"   "6478872"   "6481945"   "6511498"   "6551406")    PN. ("118"   "155")   clas. and liner with (angle degree) | US-PGPUB;<br>USPAT; USOOR | OR | ON | 2009/09/25<br>14:40 |
|-----|-----|--|---------------------------|----|----|---------------------|
| S4  | 30  | ("118" "156").clas. and<br>(chamber reactor vessel)<br>with liner with (angle<br>degree)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/09/25<br>14:40 |
| S5  | 4   | ("3031099").URPN.  | USPAT                     | OR | ON | 2009/09/25<br>15:00 |
| S6  | 1   | 10/595994  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/03/22<br>11:16 |
| S7  | 1   | "6391804"  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/03/22<br>11:22 |
| S8  | 5   | ("5203958"   "5503881"  <br>"5504831"   "5654904"  <br>"5762713").PN. OR<br>("6391804").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/03/22<br>11:23 |
| S9  | 1   | 09/590824  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/03/22<br>11:23 |
| S10 | 1   | "20050268567"  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/03/22<br>11:23 |

| S11 | 0       | ("2005/0268567"). URPN.   | USPAT  | OR | ON | 2010/03/22<br>11:23 |
|-----|---------|---|--|----|----|---------------------|
| S12 | 367     | (cool\$3) with window and ("118" "156"). clas.  | USPAT  | OR | ON | 2010/03/22<br>11:35 |
| S13 | 16      | ("5262610"   "5368685").<br>PN. OR ("6059922").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/03/22<br>12:36 |
| S14 | 322     | (cool\$3) near2 ring and ("118" "156").clas.  | USPAT  | OR | ON | 2010/03/22<br>14:56 |
| S15 | 199     | (cool\$3) near2 ring and (118/7\$ 156/345.\$).cds.  | USPAT  | OR | ON | 2010/03/22<br>14:57 |
| S16 | 318     | (cool\$3) near2 ring and (118/7\$ 156/345.\$).cds.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/03/22<br>14:57 |
| S17 | 119     | (cool\$3) near2 ring and (118/7\$ 156/345.\$).cds.  | US-PGPUB;<br>USOCR                                 | OR | ON | 2010/03/22<br>14:57 |
| S18 | 119     | S16 or S17  | US-PGPUB;<br>USOCR                                 | OR | ON | 2010/03/22<br>14:57 |
| S19 | 318     | S16 or S17  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/03/22<br>14:57 |
| S20 | 4074    | (cool\$3) with window   | EPO; JPO;<br>DERWENT                               | OR | ON | 2010/03/22<br>14:58 |
| S21 | 806     | (cool\$3) near2 window  | EPO; JPO;<br>DERWENT                               | OR | ON | 2010/03/22<br>14:58 |
| S22 | 45      | (cool\$3) near2 window<br>and plasma  | EPO; JPO;<br>DERWENT                               | OR | ON | 2010/03/22<br>14:58 |
| S23 | 62      | (cool\$3) near2 ring and plasma   | EPO; JPO;<br>DERWENT                               | OR | ON | 2010/03/22<br>15:00 |
| S24 | 43      | ("2186450"   "2576392"   "2613402"   "2613402"   "2613402"   "2939186"   "20020185229"   "3001462"   "3194364"   "3378610"   "3385285"   "3566038"   "3611970"   "389243"   "4213029"   "4213029"   "4295721"   "4714333"   "4799343"   "48552608"   "5161055"   "5176022"   "6212989"   "5301434"   "6404560"   "6559424"   "6603745").   PN | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/03/22<br>15:22 |
| S25 | 1324812 | (chamber liner wall) with<br>(arc\$3 curv\$3 curvature<br>degree rectangle<br>rectangular flow)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/03/22<br>16:30 |

| S26 | 6011 | (chamber liner wall) with<br>(arc\$3 curv\$3 curvature<br>degree rectangle<br>rectangular flow) and (rtp<br>"rapid thermal")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/03/22<br>16:40 |
|-----|------|--|--|----|----|---------------------|
| S27 | 2259 | (chamber liner wall) with<br>(arc\$3 curv\$3 curvature<br>degree rectangle<br>rectangular) and (rtp rapid<br>adj thermal)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/03/22<br>16:40 |
| S28 | 13   | (chamber liner wall) with<br>(arc\$3 curv\$3 curvature<br>degree rectangle<br>rectangular) with shape<br>with flow and (rtp rapid<br>adj thermal)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/03/22<br>16:40 |
| S29 | 213  | (chamber liner wall) with<br>(arc\$3 curv\$3 curvature<br>degree rectangle<br>rectangular) with shape<br>and (rtp rapid adj thermal)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/03/22<br>16:44 |
| S30 | 140  | ("3868751"   "3868297"   "3916822"   "4081313"   "4101759"   "4113547"   "4493977"   "4497683"   "4511788"   "4533820"   "4540876"   "4545327"   "4580451"   "4789771"   "4789165"   "482613"   "4888282"   "4826138"   "4881368"   "4920918"   "4891368"   "4920918"   "4976567"   "4986838"   "5034199"   "50444943"   "5053247"   "5074017"   "5077875"   "5089198"   "5104276"   "5106200"   "5108792"   "5252807"). PN. OR ("5444217"). | US-PGPUB;<br>USPAT; USOOR                          | OR | ON | 2010/03/22<br>17:09 |
| S31 | 1    | (cool\$3) near2 ring and   | EPO; JPO;<br>DERWENT                               | OR | ON | 2010/03/22<br>18:35 |

## EAST Search History (Interference)

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## 3/24/2010 11:30:34 AM

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